

LUCA, St.; LAZAR, Gh.

Increase of its own funds, main task of the consumer's
cooperative cooperative society. Probleme econ 16
no. 5: 69-82 My '63.

NEGOITA, A.; LUCA, V.; TEODORESCU, D.

Laying polymer carpets on floors with a moist support stratum.
Bul stiint polit Cluj no.5:171-183 '62.

1. Institutul Politehnic Cluj (for Negoita). 2. Trustul
l Constructii Bucuresti (for Luca). 3. Institutul de
cercetari in constructii si economia constructiilor
(for Teodorescu).

MINOIU, I.; TATU, N.; LUCA, V.; POPA, P.

Study on the functional behavior of some types used in
tooth sprocket chain drives. Bul Inst Petrol Rum 9: 133-142 '63.

EXCERPTA MEDICA Sec 10 Vol 12/7 Obstetrics July 59

1112. INTRA-UTERINE UNIPOLAR FOETAL ELECTROCARDIOGRAPHY DURING PREGNANCY AND LABOUR - Electrocardiografia fetală monopolară intra-uterină în cursul sarcinii și travaliului. Interpretarea modificărilor izometrelor cordului fetal în timpul contracției uterine - Luca V. and Simionescu M. - VIAȚA MED. 1958, 5/4 (315-324) Graps 4 Ilus. 1

The authors present a study based on 18 recordings, out of which 2 were taken during the 5th month and 16 during the 9th month of pregnancy (10 during labour and 6 near term). The discrepancy between the clinical findings (changes in the cardiac sounds of the foetus during uterine contraction) and the electrocardiographic finding (persistence of an unchanged cardiac activity in the foetus during this contraction) can be explained by the physical and mathematical relations of acoustic phenomena in general; in fact this discrepancy is only an apparent one.

(X, 18)

OUTCOME OF LABOR, SAGE, C. M.

EXCERPTA MEDICA Sec 18 Vol 4/2 Cardiovas. Dis. Feb 60

499. *Intra-uterine monopolar foetal ECG during pregnancy and during labour. Interpretation of the changes of the foetal heart sounds during uterine contractions*
L'électrocardiographie foetale monopolaire intra-utérine au cours de la grossesse et du travail. L'interprétation des modifications des bruits du coeur foetal pendant les contractions de l'utérus LUCA V. and SIMONESCO M. *Matern. Hôp. d'Etat no. 11, Bucarest Gynec. et Obstét.* 1958, 51/5 (533-540) Graphs 5 Illus. 1

A change in the consistency of the uterine muscle during contractions modifies a series of physical properties of the medium traversed by the foetal heart sounds, especially the density and the coefficient of elasticity; these changes in their turn modify the acoustic resistance of the medium. According to the general laws of acoustics concerning sounds traversing different media, the last-mentioned modification has the effect that the sounds produced by the contraction of the foetal heart are more or less completely reflected by the uterine muscle in contraction; only a very small part of the refracted sound energy can be perceived by the examiner. In such cases, the discordance between the clinical finding—the modifications of the foetal heart during the contraction—and the ECG finding—the continuation of the cardiac activity of the foetus, not influenced by this contraction—may be explained by the physico-mathematical relations of the general acoustic phenomena: in other words, the discordance is only apparent.

(N. 18)

LUCA, Victor

An interesting suggestion. Constr Buc 16 no.769:2
3 Oct '64

1. Regional Trusts for Housing Construction, East.

ALESSANDRESKU, Dan[Alessandrescu, Dan]; LUKA, Vasile[Luca, Vaile]; PASKU, Filon [Pascu, Filon]; ILIYESKU, Liviu [Iliescu, Liviu], inzh.; LOZANU, K.[Lozamu, C.], otv. red.

[Atlas of colposcopy] Atlas kol'poskopii. Bucharest, Med. izd-vo, 1963. 220 p. (MIRA 17:4)

RAOU, A., ing.; TRON-RENGI, I., ing.; LORREOU, C., ing.; JUGANARU, S.;
IUCAGE, S.

A 3,5 M.W. impulse generator. Automation electronica 8 no.3:
107-113 My-Ju'64

LUCACI, I.

Threads and waviness in glass. p.398

INDUSTRIA USOARA. (Asociația Științifică a Inginerilor și Tehnicienilor din
România și Departamentul Industriei Ușoare din Ministerului Industriei
Bunurilor de Consum)
București, România
Vol. 6, no.10, Oct. 1959

Monthly List of East European Accessions (EEAT) LC., Vol. 9, no.1, Jan. 1960
Uncl.

RUMANIA / Chemical Technology. Chemical Products and H-13
Their Application. Ceramics. Glass. Bind-
ing Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2085.

Author : Lucaei, L.

Inst : NOT given.

Title : Recent Advances in the Field of Chemistry and
Technology of Glass.

Orig Pub: Ind. usoara, 1958, 5, No 3, 106-108.

Abstract: A review. The problems of glass (G) structure
are discussed as well as the preparation of cer-
tain types of G with special properties based on
new components, production of a light-sensitive,
dosimetric G, quartz filters and glass plastics.

Card 1/1

Lucaci M.

RUMANIA / Farm Animals! Honeybee.

Q-5

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105780.

Author : Lucaci, M.

Inst : Not given.

Title : Heating of Beehives in Springtime by Means of
a Kerosene Lamp.

Orig Pub: Apicultura, 1958, 31, No 2, 69-70.

Abstract: A lamp is placed in a special bottomless box made from boards 2-3 cm. thick. When the temperature inside the hive, behind the diaphragm, drops below -2° , then, while the temperature of the hive without the lamp is 4° , in a hive heated by a lamp the temperature will be 14° . In an experiment in heating of hives (April 1957), two weak colonies composed of five frames each, de-

Card 1/2

BENETATO, Gr., acad.; ZAMFIRESCU, N.; FELBERG, B.; STOICULESCU, P.;
GARDEV, M. (Bucuresti); DANIELLO, L.; LUCACI, V.; GELEPU, E.;
VITEBSCHI, V. (Cluj)

Study on the respiratory dynamics and the functional level of the
superior organovegetative centers in workers exposed to silicosis.
Studii cerc fiziol 5 no.1:29-41 '60. (EEAI 9:12)

1. Institutul de fiziologie normala si patologica "Prof. Dr.
D.Danielopolu" al Academiei R.P.R.
(RESPIRATORY ORGANS)
(CARDIOVASCULAR SYSTEM)
(SILICOSIS)

LUCACI, M., ing.; POP, N., ing.; TUFA, Ion; STANICA, Maria, ing.; BADEA, Gheorghe, ing.; BULBOACA, Eugenia, ing.

Improving the quality of products, an essential objective of the economic activity. Probleme econ 18 no.4:162-164 Ap '65.

1. Director, "Bucuresti" Factory of Plastic Masses, Bucharest (for Lucaci). 2. Head of Technical Service, "Bucuresti" Factory of Plastic Masses, Bucharest (for Pop). 3. Director, Enterprise for Cotton Industry, Bucharest (for Tufa). 4. Head of Service of the Technical Quality Control, Enterprise for Cotton Industry, Bucharest (for Stanica). 5. Director, "Tinara Garda" I.I.S., Bucharest (for Badea). 6. Head of Service of the Technical Quality Control, "Tinara Garda" I.I.S., Bucharest (for Bulboaca).

LUCACIU, Maria

16 JUL 1952

(12)

(319)

Bucharest, Romania (Geography-Geology Series), Vol. XIV, No. 1, May-June 52

1. "On Imposing Historical Events in the Life of the Romanian People," (Collectivization), pp 3-6.
2. "The Origins of the Bach and the Problems of its Suppression and Composition," B. U. XVII, Doctor of Physical and Mathematical Sciences (Doctor in Staline Filozoficești); pp7-15.
3. "George Cobulescu and the First Romanian Geographical Party," Victor IDIESCU and Vasile IDIDOA, Bucharest; pp 16-29.
4. "Theoretical Considerations on the Subject of Geology," Alex ROȘU, Researcher (Researcher), Bucharest; English Summary; pp 20-26.
5. "The Development of Rover and the Creation of the Military Rover System in the USSR," I. S. GHEORGHIU, Researcher (Researcher); Bucharest; English Summary; pp 29-36.
6. "Geomorphological Observations at Râpa Roșie," V. IEDĂȘTEAN, Bucharest; English Summary; pp 37-39.
7. "Impressions from a Trip in the USSR," Prof. Dr. TUDORANU, Bucharest; pp 40-44.
8. "Through Test Regions--School Excursions," Prof. Dr. I. GURZURĂȘI, Iași; pp 44-51.
9. "Itinerary for an Interregional Excursion," C. MARCU, IESSU, Leading Professor (Professor Punctat), Bucharest; pp 52-57.
10. "School Excursions in Euzoarea Regiune," Prof. Lucia VOICU, Oradea; pp 57-65.
11. "Itinerary and School Excursions in the Mountains of the Carpathians," Prof. Maria IUGĂȘTI, Baia Mare; pp 65-71.
12. "The Economic and Social-Cultural Development of RFR," pp 72-73.
13. "South-West Africa," G. DRĂGU, Lecturer (Lector) and I. VĂȘTE, MRD (MRD), Bucharest; pp 74-77.

GLIGORE, V., prof.; LUCACIU, O., dr.; In colaborare cu: HOLAN, T., conf.;
BRIFF, Gh., dr.; FOGANGEANU, P.

Contribution to the study of capillary permeability in
diabetes mellitus. (Preliminary note; presentation of a method).
Med. intern. (Bucur) 16 no.9:1075-1078 S '64.

1. Lucrare efectuata in Clinica a II-a medicala, Cluj (prof.
V. Gligore) in institutul de medicina nucleara, Cluj (conf.
T. Holan).

GLIGORE, V., prof.; LUCACIU, O., dr.; PAPILIAN, V.V., dr.

Research on the clinico-morphological parallelism between
micro- and macro-angiopathy in patients with diabetes
mellitus. Med. intern. 15 no.8:949-955 Ag '63.

1. Lucrare efectuata in Clinica a II-a medicala, I.M.F., Cluj
(director: prof. V. Gligore).
(DIABETIC ANGIOPATHIES) (ARTERIOSCLEROSIS)
(PATHOLOGY)

GLIGORE, V.; LUCACIU, Ol.; PAPILIAN, V.V.

Research on a generalized angiopathy in diabetes mellitus. Stud.
cercet. endocr, 14 no.4/5/6:533-538 '63.

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GLIGORE, V., conf.; BACIU, Tr., dr.; LUCACIU, Ol., dr.

Investigations of gastric functions in diabetic patients. Med.
intern. 14 no.2:187-191 F '62.

1. Lucrare efectuata in Clinica a II-a medicala, I.M.F. Cluj.
(DIABETES MELLITUS physiology) (STOMACH physiology)

GLIGORE, V., conf.; LUCACIU, Ol., dr.; RUB, D., dr.; DIMITRESCU, I., dr.

Coronary manifestations in cervico-dorsal spondyloses. Med. intern.
14 no.12:1487-1492 D '62.

1. Lucrare efectuata la I.M.F. din Cluj.
(SPINAL DISEASES) (CORONARY DISEASE)

GLIGORE, V.; GOZARIU, L.; GHERMAN, Gr.; LUCAGIU, O.; HOLAN, T.; SZANTAY, I.;
FARCASAN, M.

Changes in the function of hepato-cellular uptake of S-35 labelled
methionine in patients with hyperfolliculinism. Stud. cercet. endocr.
14 no.2:267-266 '63.

(ESTROGENS) (LIVER) (METHIONINE) (METABOLISM)
(SULFUR ISOTOPES) (LIVER FUNCTION TESTS)

DANIELLO, L., Prof.; ANASTASAFU, G., Prof.; LUCACIU, V., Prof.; COMAN, N.,
Prof.

Cavitary forms of primary pulmonary cancer; clinical and radiological
aspects. Rev. st. med., med. int., Bucur. 6 no.2:56-64 Apr-June 54.

1. Institutul de ftiziologie, filiala Cluj
(LUNGS, neoplasms
cavitary cancer, primary, pathol. & radiol.)

40115-11-1
DANIELLO, L.; ANASTASATU, G.; MOCACIU, V.; RANCEA, D.

Changes in respiratory function in silicosis and silicotuberculosis;
investigations of 90 cases by means of complex function tests. Probl.
ter., Bucur. 5:65-72 1957.

(SILICOSIS, manifestations
res. insuff., diast. resp. funct. tests)

(RESPIRATION, function tests
in silicosis & silicotuberc.)

(TUBERCULOSIS, PULMONARY
silicotuberc., resp. funct. tests)

RUMANIA

OLTEANU, M., Lieutenant-Colonel, Medical Corps; LUCAGIUC-BRAMBIER, A., Colonel, Medical Corps; BOERAS, F., Captain, Medical Corps; POLOJINTEV, G., Major, Medical Corps; and MARIETA, Petre, Dr.

"Transplantation of Corneal Layer Homografts with Different Type of Preservation. New Possibilities of Action for the Clarification of the Transplants"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 243-246

Abstract: Data on 54 operations of corneal transplantation done at Central Military Hospital, Bucharest, in 18 months; local irradiation treatment and pre- and post-operative use of fresh (3) dried (3) lyophilized (1) and cold-stored (18) corneal transplants; use of hydrocortisone, gamma globulin and hyaluronidase topically in order to prevent vasculature from infiltrating the graft. Except in one group of 11 patients with nearly total transplants, results were very promising. 1 table.

1/1

LUCACS, Gyula, fizikus

Development of light sources in 1962. Elektrotechnika 56
no.7/8:316-324 '63.

1. Egyesult Izzolampa es Villamossagi Rt. Fejlesztési
Fosztalya, Budapest, IV., Vaci ut 77.

L 31394-66 EWP(j) RM

ACC NR: AP6021113

SOURCE CODE: CZ/0043/65/000/012/0892/0899

AUTHOR: Kratsnar-Smogrovic, Juraj--Krechmar-Smogrovich, Yu. (Docent; Doctor; Pharmacist; Candidate of sciences; Bratislava); Hulkova, Olga--Gulkova, O. (Engineer; Bratislava); Lucanska, Brigita--Luchanska, B. (Graduate pharmacist; Bratislava); Elahova, Maria--Blagova, M. (Graduate pharmacist; Bratislava)

ORG: Department of Inorganic and Organic Chemistry, Pharmaceutical Faculty, Comenius University, Bratislava (Katedra anorganickéj a organickej chemie Farmaceutickej fakulty Univerzity Komenského)

TITLE: Complex compounds of Cu with organic ligands (II). Copper-o-cresotinate complexes

SOURCE: Chemické zvesti, no. 12, 1965, 892-899

TOPIC TAGS: organocopper compound, ion, spectrophotometry, ethanol, water, chemical precipitation

ABSTRACT: Reaction of Cu^{II} ions with cresotinic ions in water solutions precipitates the trihydrate salt of $\text{Cu}_2(\text{C}_8\text{H}_7\text{O}_2)_4$. The compound is also formed by the action of o-cresotinic ions upon water solutions of Bis(salicylate)-diaquo- Cu^{II} complexes. The substitution of the salicylate ion by the cresotinic ion was confirmed spectrophotometrically. The molecular ligands water

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ACC NR: AP6021113

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and ethanol are more strongly bound in the isolated complexes than in the original salicylate complex. These ligands are liberated only at 100°C and at pressures of 20-30 torr. The authors thank Graduate Physicist T. Obert for help in measuring the absorption spectrum and Graduate Pharmacist V. Hartelov for conducting the elementary analysis. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 24Aug65 / ORIG REF: 002 / OTH REF: 004
SOV REF: 001

Card 2/2 CC

KOPECNY, Josef; LUCANSKA, Nadezda; SIPKA, Frantisek; CERNY, Emil; AMBROS,
Dusan

Vinylfluoride toxicity. Prac. lek.16 no.7:310-311 S '64.

1. Klinika nemoci z povolani (prednosta doc. dr. J. Vyskocil),
I patclogickoanatomicky ustav (prednosta prof. dr. J. Svejda)
lekarske fakulty University J.E. Purkyne v Brne, Vyzkumny ustav
makromolekularni chemie v Brne, reditel dr. K. Vesely.

LUCANSKY, A.; MATISKO, J.; Spolupracovali: CERMAK, J.; SNEZNY, L.; LESKO, V.;
BIBOVA, A.

Clinical and laboratory research on the simultaneous administration of procaine and mesocaine. Rozhl. chir. 43 no. 6: 407 - 413
Je'64

1. Chirurgické oddelenie OUNZ v Presove (veduci: MUDr. J. Brtko)
a Ústredné laboratórium OUNZ v Presove (veduci: MUDr. J. Matisko).

LUCANSKY, A.; LESKO, V.; MATISKO, J.

A simple evaporator for halothane suitable for anesthetic equipment types N 3 and N 42. Bratisl. lek. listy 44 no.5: 288-291 15 S'64

1. Chirurg. odd. Obvodního ústavu národního zdraví Presov (vedoucí primář MUDr. J. Brtko), Okresná hygienická epidemiologická stanice v Presove (ředitel MUDr. I. Gajová) a Ustr. labor. Obvodního ústavu národního zdraví Presov (vedoucí primář MUDr. J. Matisko).

LUCAS, I.

Wireless Engineer
July, 1954
Geophysical and Extraterrestrial
Phenomena

551.610.535

2085

Plasma Theory of the Ionosphere. I. Lucas & A. Schlüter. (Arch. elekt. Übertragung, Jan. 1954, Vol. 8, No. 1, pp. 27-30.) The basic equations for the dynamic and electrical behaviour of the ionosphere are derived from the theory of a neutral plasma, and are used to investigate the problems of diffusion of the plasma at layer boundaries, e.m. damping of air movements and tidal oscillations of the ionosphere.

MS
4044

COUNTRY : RUMANIA B
CATEGORY : Physical Chemistry, Kinetics, Combustion,
Explosions, Topochemistry, Catalysis
ABS. JOUR. : ZhKhim., No. 17, 1959, No. 60077
AUTHOR : Litcanu, C., Lucas, I., Stanculescu, I.
INSTITUTE : -
TITLE : Investigation of Thermal Reactions Involving
Sodium Metaphosphates and Certain Sodium Salts
ORIG. PUB. : Studii si cercetari chim. Acad. RPR Fil. Cluj,
1958, 9, No 1-4, 101-109
ABSTRACT : The $\text{Na}_3\text{P}_3\text{O}_9$ -- Na_2CO_3 system, with molal ratios
of $\text{Na}_2\text{O} : \text{P}_2\text{O}_5$ equal to 3 : 1, 2 : 1, and 5 : 1,
was investigated at 370-570°. In all the cases,
and regardless of the reaction temperature and
the components molal ratio, sodium triphosphate
was the initial reaction product.

of Oxycids. I.

Card: 1/1

B-10

LUCATI, J.

Electric power production in Croatia. p. 11.
(GLASNIK, Vol. 5, No. 4/5, 1956

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

LUCATI, J.

"The modern development of gas turbines."

p. 189 (Energija) Vol. 6, no. 7/8, July/Aug. 1957
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

LUCATI, J.

Thermoelectric plants in the industries of Croatia. p. 219.

ENERGIJA. (Zajednica elektroprivrednih poduzeca Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia. Vol, no. 7/8, July/Aug. 1959.

Monthly List of East European Accessions (EEAI)LC, Vol. 9, no.1, Jan. 1960.

Uncl.

LUČATI, J.

Radiator systems in Zagreb. p. 21.

ENERGIJA. (Zajednica elektroprivrednih poduzeća Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia.
Vol. 8, no. 3/4, Mar./Apr. 1959.

Monthly list of the East European Accessions (EEA) IS, Vol. 8, no. 8, Aug. 1959.

Uncl.

LUCARI, Jakob, ing. (Zagreb); SELANEC, Zdonko, ing. (Zagreb)

Selection of best fuels in thermoelectric power plant in Zagreb. *Energija*
Hrv 10 no. 9/10:312-315 '61.

1. Institut za elektroprivredu, Zagreb, Proleterskih brigada 37.

LUCATI, J.

"Handbook of power machine engineering" published by a collective of authors. Reviewed by J. Lucati. Energija Hrv 10 no. 1/2:67. '61

LUCATI, Jakob, inž.

Electric power supply of the city of Zagreb. Energija Hrv 11 no.11/12:
355-362 '62.

1. Institut za elektroprivredu, Zagreb, Proleterskih brigada 37,
clan Urednickog odbora, "Energija".

LUCATI, Jakob, inz. (Zagreb)

Studies of thermoelectric power systems. *Energija Hrv*
12 no.7/8:215-217'63.

1. Clan Urednickog odbora, "Energija".

LUCATI, Jakob, inz. (Zagreb)

Household consumption of fuel and electric power in Zagreb.
Energija Hrv 12 no.1/2:38-41 '63.

1. Institut za elektroprivredu, Zagreb, Proleterskih brigada
37, i član Urednickog odbora, "Energija."

LUCATI, Jakob, inz. (Zagreb)

Storage of coal, and balancing of stores. Energija Hrv
12 no.7/8:238-242 '63.

1. Institut za elektroprivredu, Zagreb, Proleterskih
brigada 37, i clan Urednickog odbora, "Energija".

IUCATI, Jakob, dipl. inz. (Zagreb)

Stopping thermoelectric power stations during low loads in the system. Energija Hrv 13 no.7/8:210-215 '64.

1. Institute of Electric Industries, Zagreb, Proleterskih brigada 37.

PROCESSES AND PREPARATION

22

CA

Ultrafiltration of petroleum. A. ZAHARIA AND E. LUCATU. *Bul. soc. chim. Romania* 12, 90-4(1930).—In an attempt to settle the question as to whether paraffin, resins and asphalt are present in petroleum in colloidal or in true soln., petroleum of different types from 5 localities were subjected to ultrafiltration. Vulcanized rubber membranes of 0.04 mm. thickness and a vulcanization coeff. of 1.7 were used in the Brukner app. under a pressure of 150 atm. Two membranes were used that gave an effective filtration surface of 25 sq. cm. The resins of petroleum which are separable by 70% EtOH were found to be ultrafilterable. All the paraffin in the petroleum used was ultrafilterable but the asphalt, both hard and soft, was removed quantitatively by ultrafiltration. This behavior indicates that the asphalt is colloidal but that the resins and paraffins are not. The asphalt retained by the ultrafilter was dissolved in CCl₄ and cyclohexane and was again retained by the filter. Several passages of an oil through the same filter removed the resins and left the pure dry asphalt, which dissolved readily in that portion of the petroleum that was ultrafiltered. This expt. shows that the asphalt exists in petroleum as a lyophilic colloid.

ODEN E. SHEPPARD

METALLURGICAL LITERATURE CLASSIFICATION

ASB-51A

REGION: 51703130

GROUP: 51703130

CLASSIFICATION: 51703130

GROUP: 51703130

CLASSIFICATION: 51703130

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la

Relations among the maximum vapor tensions of some organic groups. I. Hmanoil Lucatu. *Bul. soc. romine* *Ac. 38, 137-8(1933)*.—Data are compiled to establish the relation: On increasing the no. of C atoms of an org. series by arithmetic progression, the vapor tensions corresponding to the compts. decrease in a linear manner. Calvin Brous

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS	3RD AND 4TH ORDERS	5TH AND 6TH ORDERS	7TH AND 8TH ORDERS

ALPHABETIC INDEX

1ST AND 2ND LETTERS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ

1ST AND 2ND ORDERS

PRECEDENCE AND PROPERTIES INDEX

3787. Viscosity of pure liquids. Influence of temperature and constitution. LUCATU, E. *Bull. Soc. Roumaine Phys.*, 42 (No. 78) 103-28 (1941) *In French.*—Temp. dependence of viscosity has been investigated by calculating the ratio of viscosities, at a series of temps., for 2 liquids having the same volatility, shown by equal boiling points. A long molecule liquid is used as comparison, and spherical molecules show an abnormal decrease of viscosity with increase of temp. The variation for alcohols and organic acids is parallel to the degree of association, as judged by the absorption of the OH band at 9 622 Å. A bibliography of 84 references is appended. E. H. D.

512.133

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

CA

The viscosity and molecular structure of tetranitromethane. Emanoil Lucatu and Gheorghe Palade (Facultatea Stiint. Bucuresti, Romania). Acad. Rep. Populare Romane, *Rev. Stiint. A*, 1, 125-30 (1949).—In a previous publication L. (C.A. 37, 3187) reported some observations on viscosities: (1) The relation between the viscosities at various temps. of 2 liquids with a straight C chain remains const. providing the liquids have the same volatility; (2) the viscosity of a liquid with a sym. cyclic chain decreases faster with increase of temp. than that of other liquids with the same volatility but with a straight or branched C chain. The viscosity of $C(NO_2)_4$ (I) was detd. at 20-90°; it decreases faster than that of n-octane (same volatility), which leads to the conclusion that I has the tetrahedral structure. Gerhard Aufberger

cu
1951

3

Reasons for the extinction of the fluorescence of solutions. Emmanoil Lucatu (Univ. Bucharest). *Acad. Rep. Populare Române, Bul. Stiinj. A.* 1, 871-81(1950) (French summary).--The heterogeneous state of fine dispersion of certain substances intensifies their fluorescence. The action of inhibitors on the fluorescence of solns. does not consist of a de-activation as suggested by the Perrins (*C.A.* 18, 926, 936; 21, 3012; 24, 2072) but of a diminution of the interfacial tension, which causes the soln. to approach the homogeneous state. Gerhard Aufleger

LUCAIU, E.

New type of luminophore for fluorescent tubes from domestic materials. p. 333. ACADEMIA REPUBLICII POPULARE ROMANE.
Vol. 5, No. 2, Feb 1955. Rumania

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

~~EMANUIL~~ LUCATEL, E.

ROMANIA/Photochemistry - Radiation Chemistry. Theory of
Photographic Process.

B-10

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18654

Author : ~~Emanoil Lucatel~~

Inst : Academy of people's Republic of Romania.

Title : Influence of Dispersion of Some Fluorescent Substances
on Fluorescence Intensity. I. Fluorescence in Water,
Alcohols, Acetone and Ethyl Ether.

Orig Pub : Comun. Acad. RPR, 1956, 6, No 1, 35-42

Abstract : The presence of microaggregates of fluorescein in H₂O,
(CH₃)₂CO, CH₃OH and C₂H₅OH was detected by observation
of electrophoresis. The illumination of solutions with
ultraviolet light gives rise to the photoelectric effect.
Addition of orthophenyldiamine and hydroquinone results
in the dissociation of fluorescein aggregates; electro-
phoresis is replaced by electrolysis and the photoelectric

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- 288 -

ROMANIA/Photochemistry - Radiation Chemistry. Theory of
Photographic Process.

B-10

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18654

effect disappears. The extinguishing of fluorescence in ethyl ether is caused by the solvent influence on free molecules. The solvent does not produce any strong influence on the fluorescence intensity in a solution in alcohol, in which the molecules are associated. Extinguishing of fluorescence at the addition of extinguishers - orthophenyldiamine and hydroquinone - is caused by the solvent influence on the free molecules of the dye.

Card 2/2

- 289 -

Card : 1/1

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001030710014-4"

LUCATU E.

RUMANIA / Physical Chemistry. Colloid Chemistry. Dis- B
perse Systems.

Abs Jour: Ref Zhur-Khimiya, No 20, 1959, 70944.

Author : Lucatu, E.; Marta-Miret, L.
Inst : Not given.
Title : The Evolution of Colloidal Hydroxylapatite
with Time.

Orig Pub: Rev. chim. (RPR), 1958, 3, No 2, 255-260.
Comun. Acad. RPR, 1958, 8, No 12, 1255-1262.

Abstract: Experimentally, in a globular Hoeffler viscometer,
the change of the apparent viscosity of (Hydroxyl-
apatite gel with time, at different temperatures
was investigated. It was established that with
the rise of temperature, time t increases, which
is necessary for achieving the maximum structural
viscosity (MSV), $\lg t$ linearly depending on $1/T$

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RUMANIA / Physical Chemistry. Colloid Chemistry. Dis- B
APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001030710014-4
perse Systems.

Abs Jour: Ref Zhur-Khimiya, No 20, 1959, 70944.

Abstract: (T is absolute temperature). The quantity of
water retained by the gel structure depends also
on the time of the existence of the gel's undestroyed
structure and varies with temperature
change; hence, maximum quantity of water corres-
ponds to the gel MSV. The period necessary for
the transformation of the hydroxylapatite gel
into dibasic Ca phosphate is brief if the gel is
at rest during the time that corresponds to the
MSV and the maximum quantity of the combined
water. If the system is at rest for a longer
time, this period is increased substantially. --
U. Andres.

Card 2/2

RUMANIA/Optics - Luminescence

K

Abs Jour : Ref Zhur Fizika, No 10, 1959, 23632

Author : Lucatu, Emanoil

Inst : ~~Lucatu, Emanoil~~
Title : Influence of Degrees of Dispersion of Certain Fluorescent Substances on the Intensity of Fluorescence. II. Uranin and Mixtures of Acetone in Water.

Orig Pub : Commun. Acad. RFR, 1958, 8, No 10, 1021-1026

Abstract : An investigation was made of the changes in intensity of fluorescence of solutions of uranin in a acetone-water mixture depending on the composition of the mixtures, and their viscosity, and on their behavior in an electric field. As the concentration of the acetone in the mixture increases, the intensity of fluorescence increases and reaches a maximum at 50% water by weight. The maximum of viscosity of the acetone-water mixture corresponds to 30% water by weight. In an electric

Card 1/2

COUNTRY : RUMANIA
CATEGORY : Inorganic Chemistry. Complex Compounds
ABS. JOUR. : RZhKhim., No 17, 1959, No. 50248
AUTHOR : Lucatu, E., Marta-Miret, L.
INSTITUTE :
TITLE : Derivation of Dicalciumphosphate from Sodium Phosphate and Calcium Chloride
ORIG. PUB. : Comun. Acad. RPR, 1958, 8, No 11, 1137-1143

ABSTRACT : Optimum conditions in the obtainment of pure dicalciumphosphate (I) from sodium phosphate and CaCl_2 have been determined with greater exactness. It was established, that in the obtainment of I, an intermediate product formed is not the median calcium phosphate but a colloidal hydroxylapatite. The formation of hydroxylapatite together with I may be avoided through the addition of disodiumphosphate to sodium phosphate.

Card: 1/1

LUCAVATU, I. _____

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE ANIMAL. No. 4, 1958.

LUCAVATU, I. Activities of the Bucharest Mistretul Enterprise. p. 29.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

HAUDUROY, P.; LUGGESI, M.; SUDIC, D.

A reed for a new classification of the genus Mycobacterium,
Tuberkuloza 16 no.3:211-214 My-Ag '64.

1. Institut za bakteriologiju medicinskog fakulteta, Lausanne;
Institut Carlo Forlaniqi, Rim; Republicki zavod za zastitu
zdravlja, Zagreb.

LUCEK, J.

Landslides in eastern Moravia. p.90.
(Ochrana Prirody, Vol. 12, No. 3, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

LUCEK, Josef, inz.

Engineering geology on the banks of the Niger River in Mali.
Geol pruzkum 5 no.7:209-211 J1 '63.

1. Geologicky pruzkum, n.p., zavod stavebni geologie, Praha.

LUCEK, Josef, inz.

The Ben Metir Dam. Inz stavby 6 no.3:154-156 Mr '58.

LUCEK, Josef, inz.

Underground waters of West Africa. Geol Pruzkum 5 no.11:
344-345 N '63.

1. Geologicky pruzkum, N.P., zavod stavebni geologie, Praha.

LUCEK, Josef, inz.

Seismic map of Mongolia. Geol pruzkum 5 no.9:284 S '63.

1. Geologicky pruzkum, n.p., Praha, zavod stavebni geologie.

LUCEK, Josef, inž. nositel cestšeho odznaku "Nejlepší pracovník geologické služby"

Stone dams and some tasks of the engineering geology survey.
Geol průzkum č. no. 9:275-277 S '64.

1. Geologický průzkum National Enterprise, Department of
Engineering Geology, Prague.

LUCEK, Josef

Design and construction of fill dams. Geol pruzkuz 7 no.1:30
Ja '65.

LUCER, Cezary; SZLAZAK, Wieslaw

Successful result of the use of cytostatic drugs of the ethyl-eneiminobenzoquinone group in the treatment of cancer of the uterine cervix. Pol. tyg. lek. 20 no.2:70-71 11 Ja '65

1. Z Katedry Anatomii Patologicznej (Kierownik: doc. dr. med. Maria Kobuszewska-Faryna) i z Kliniki Poloznictwa i Chorob Kobietych (Kierownik: prof. dr. med. Malgorzata Serini-Balska) Studium Doskonalenia Lekarzy Akademii Medycznej w Warszawie.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour: Ref Zhur-Khin., No 2, 1959, 4715.

Author: Lucas, R. and Pergal, M.

Inst: _____
Title: Homologs of Pyridine. II. Synthesis of Some α ,
 α' -substituted Pyridines and Their Reactions.

Orig Pub: Chem Listy, 52, No 1, 68-76 (1958) (in Czech)

Abstract: 2,6-R₁C₅H₃N (I) (where R_a = C₂H₅, R_b = n-C₃H₇, R_c = iso-C₃H₇, R_d = n-C₄H₉CHCH₃, R_e = CH₃) have been synthesized by the reduction of the corresponding glycols, 2,6-(R'₁(OH)C)₂C₅H₃N (IIa, b) (R'₁a = CH₃, R'₁b = C₂H₅), or of the diketo derivatives, 2,6-(R'₁CO)₂C₅H₃N (IIIa, b). The II are prepared a Grignard synthesis from 2,6-(R'₁OOC)₂C₅H₃N (IVa, b); the ketones III are obtained from

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

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Abs Jour: Ref Zhur-Khin., No 2, 1959, 4715.

2,6-dicyanopyridine (V) or by a Claisen condensation. Ie, IIa, and IIb are converted to the iodomethylates; the rate of methylation decreases with increasing steric hindrance in I. On heating with alkali the iodomethylates of Ia and Ie form CH_2NH_2 and m-cresol (yield 80%) or 2-methyl-3-ethylphenol (VI). The cleavage of $\text{CH}_3\text{I.Ie}$ in silver apparatus yields I-methylcyclohexene-1-one-3 (VII) instead of m-cresol. A mixture of 46 gms tetradipicolinate of K with 130 gms POCl_3 is heated for 30 min, the POCl_3 is distilled off under reduced pressure, and the residue is refluxed for 1 hr with CH_3OH ; the yield of IVa is 73%, mp 121° (ether insoluble). Using a similar procedure IVb was

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 4715.

synthesized, yield 81.8%, bp 185°/16mm, mp 43°. IIA is prepared by heating 35 gms IVA for 30 min with CH₂MgBr (from 36 gms Mg) in C₆H₆; yield 70%, mp 91°. 9.5 gms IIA are refluxed for 11 hrs with 100 gms HI (acid, d = 1.7) and 10 gms of red P, the HI is distilled off under vacuum, and the residue is treated with NaHSO₃ followed by alkalization; steam distillation gives IC, yield 84.3%, bp 75°/15 mm, 90°/25mm, n_D²⁰ 1.4768, d₄²⁰ 1.4700, d₄²⁰ 0.8788; picrate, mp 114°. C₂H₅MgBr and IVb on refluxing for 30 min in ether give a mixture from which 0.23 gms IIB were obtained (bp 115°/2mm) after reduction with HI acid.

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4715.

IIb is also obtained in small yields by the reaction of C_2H_5MgBr with IIIb. 14.75 gms $n-C_2H_5MgBr$ are refluxed for 45 min with 8.15 gms IIIa, the mixture is decomposed by heating with a concentrated solution of K_2CO_3 , and the reaction products are reduced with HI + P; 0.46 gms Id are obtained, bp $111^\circ/12mm$, picrate mp $166-167^\circ$. When III ($R' = NH_2$) is heated for 2 hrs at $125-130^\circ$ with $POCl_3$ and the excess $POCl_3$ is distilled off under vacuum, V is obtained, yield 89.5%, mp 126° . V on refluxing for 30 min with CH_2MgI in ether gives 11% IIIb. A mixture of IVb, xylene, $CH_3COOC_2H_5$ and C_2H_5ONa (from 8 gms Na) is refluxed 19 hrs, followed by heating to 150° for 30 min with dil

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4715.

HDL (2:1); the yield of IIIb is 85.5%, mp 79°, bis-semicarbazone derivative mp 250° (decomp), dioxime derivative mp 233.5°, dihydrazone derivative mp 181°. When V and C_2H_5MgBr are refluxed in ether for 12 hrs at 20°, IIIb is obtained, yield 51%, bp 110°/0.8mm, mp 62°. When IIIa is heated with hydrazine in the presence of solid KOH to 140-190°, the solution is acidified with dilute H_2SO_4 , $CuSO_4$ is added, the mixture is steam distilled, the residue is made alkaline and steam distilled for a second time, Ia is obtained, bp 171°/744mm, picrate mp 116-117°. A similar procedure is used in synthesizing Ib, yield 67.3%, bp 206-207°, picrate mp 83.5-84°. 18.8 gms Ic and

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4715.

37.5 gms $6H_3I$ are allowed to stand for 4 days; the yield of iodomethylate (VIII) is 99%, mp $237-238^\circ$. The product, standing time, yield of iodomethylate in %, and mp in $^\circ C$ are listed in that order: iodomethylate of Ia (IX), 28 days, 86.9, 142; iodomethylate of Ic, 1 yr, 45.1, 118.5. VIII is made alkaline with KOH and steam distilled in a silver flask, the distillate is acidified and extracted with ether; the ether phase gives VII, 2,4-dinitrophenylhydrazone mp 174° . When 6.7 gms IX are heated for 38 hrs with aqueous KOH in an autoclave to 200° , followed by steam distillation and acidification of the residue, 2.3 gms VI are

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4715.

obtained, bp 115⁰/9mm, mp 67⁰. For the preceding communication see RZhKhim, 1958, 43375. -- J. Kovar.

Card : 7/7

LUCESCU, D.

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: Dr.

Affiliation: The Popesti Leordeni State Farm (Gospodaria Agricola de
Stat Popesti Leordeni), Bucharest Regiune.

Source: Bucharest, Probleme Zootehnice si Veterinare, No 6, 1961,
pp 30-32.

Data: "The Siloing of Lucerne, Trifol and "Borceag".

LUCESCU, I.

MANDAKE, F. [Mandache, F.]; PRODESKU, V. [Prodescu, V.]; DZHILORTYANU, M.
[Dzilortianu, M.]; KONSTANTINESKU, S. [Constantinescu, S.];
LUTSESKU, I. [Lucescu, I.]

Surgical treatment of peptic ulcer. Khirurgia 36 no.12:61-68
1968. (MIRA 14:1)

1. Iz khirurgicheskoy kliniki bol'nitsy Brynkovenesk (zav. -
dotsent F. Mandake), Bukharest.
(STOMACH--SURGERY)

LUCESCU, Radu, ing.

Melamine. St si Teh Buc 16 no. 3: 22-23 Mr '64.

RUMANIA./Chemical Technology. Chemical Products and Their
Application. Synthetic Polymers. Plastics.

H

Abs Jour: Ref Zhur-Khim., No 13, 1958, 45065.

Author : Goldenberg N., Lucescu S.

Inst :

Title : Typification of Phenolic Molding Materials.

Orig Pub: Standardizarea, 1957, 9, No 7, 330-337.

Abstract: Principles of typification of phenolic molding materials (PM). A survey of standardized PM in USSR, USA, France and Germany, and considerations concerning typification of PM in Rumanian People's Republic.

Card : 1/1

43

LUCESCU, T.

TECHNOLOGY

Periodicals: CELULOZA SI HIRTIE. Vol. 7, no. 8, Aug. 1958

LUCESCU, T. Some special ways of securing a better and continuous supply of electric power in woodpulp mills. p. 333

Monthly List of East European Accessions (EEAA) LC, Vol. 8, No. 2,
February 1959, Unclass.

LUCESCU, T.; STEFANESCU, S.

Special electric drives in paper mills; electric drive of the calenders.
p.231

CELULOZA SI HIRTIE. (Asociatia Stiintifica a Inginerilor si Technicienilor
din Romania si Ministerul Industriei Petrolului si Chimia) Bucuresti, Romania
Vol. 8, no. 10, Oct. 1959

Monthly List of East European Accessions (EPAI) LC, Vol. 9, no.2, Feb. 1961

Uncl.

5(1), 15(8)

RUM/3-59-8-19/32

AUTHOR: Lucescu, S., Engineer

TITLE: An Achievement of the Rumanian Chemical Industry:
The Plastics Factory "Bucuresti"

PERIODICAL: Revista de chimie, 1959, Nr 8, p 478 (Rumania)

ABSTRACT: The author points out that the plastics industry started in Rumania as late as in 1948, following the nationalization of the main industries. The factory "Bucuresti" was established with a section for thermoplastic materials, provided with modern equipment. The currently processed raw materials are PVC, in hard and plastified mixtures, polyethylene, and polystyrene. Various production procedures applied at the factory "Bucuresti" are mentioned, such as pressing by injection, extrusion, vacuum processing, welding of sheets, etc. At the same time with production, the factory Bucuresti is considered as a training unit for the specialization of workers, technicians and engineers in the field of plastics. Various products in common use are quoted, from domestic objects to

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RUM/3-59-8-19/32

An Achievement of the Rumanian Chemical Industry: The Plastics
Factory "București"

articles for the electrical installations, for example
insulated wiring tubes. ✓

Card 2/2

LOCESCU, T.

Fabrication of wood-fiber boards by a dry and semidry method. p. 51.

CELULOZA SI HIRTIE. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din
România si Ministerul Industriei Petrolului si Chimie) Bucuresti, Rumania.
Vol. 8, no. 2, Feb. 1959.

Monthly List of East European Accessions (ESAI) IC, Vol. 8, no. 7, July 1959.

Uncl.

LUCEV, A.

Organization and management organs of Elektra Enterprise. p. 413.

ENERGIJA. (Zajednica elektroprivrednih poduzeca Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia. Vol. 7, no. 10, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959.

Uncl.

LUCEV, Ivan, ing.

Rates of the electric power from the aspect of electric power industry as an organizer of production. Elektroprivreda 14 no. 9:447-452 S '61.

1. Zajednica elektroprivrednih poduzeca Hrvatske.

ANDZHEYEVSKAYA, L. [Andrzejewska, L.]; LUCHAK, Ya. [Luczak, J.]

Migrational inactivity of animal populations in stabilized communities.
Vop. ekol. 7:5-6 '62. (MIRA 16:5)

1. Institut ekologii Pol'skoy Akademii nauk, Varshava.
(Insect populations)

LUCHANINOV, N.V., agronom

Preparing manure-soil composts while keeping cattle at field
bases. Zemledelie 25 no.11:74 N '63. (MIRA 17:2)

1. Kholkhoz imeni Sverdlova, Balakleyskogo rayona, Khar'-
kovskoy oblasti.

IUCHANINOVA, M.T. ptichnitsa.

One hundred and eighty-two eggs from each laying hen. Ptitsevodstvo
8 no.5:24 My '58. (MIRA 11:5)

1. Kolkhoz "Bol'shevik", Zolotonoshskiy rayon, Cherkasskaya oblast',
USSR.

(Poultry)

9(4), 24(0)

SOV/112-58-3-4598

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 3, p 176 (USSR)

AUTHOR: Shustina, A. L., and Luchanskaya, N. M.

TITLE: Investigation of Barium Vaporization From Directly Heated Oxide-Coated Cathode of Economical Battery-Type Tubes (Issledovaniye ispareniya bariya s pryamonakal'nogo oksidnogo katoda lamp ekonomichnoy batareynoy serii)

PERIODICAL: Tr. n.-i. in-ta. M-vo radiotekhnich. prom-sti SSSR, 1956, Nr 6(36), pp 62-73

ABSTRACT: The causes of 2P2P-tube cathode-emission instability are investigated. One of the fundamental causes of sharp changes in parameters of an under-heated tube during its lifetime is vaporization of barium from the cathode. To determine the rate of vaporization, an experimental tube with two cathodes (oxide-coated and tungsten) has been used. The tungsten-cathode emission varied depending on the amount of barium sprayed from the adjacent oxide-coated cathode. The time period necessary to build the maximum emission

Card 1/2

9(4), 24(0)

SOV/112-58-3-4598

Investigation of Barium Vaporization From Directly Heated Oxide-Coated

from the tungsten cathode has been determined, and the barium evaporation rate has been calculated. The relation between the transconductance of an underheated-cathode tube and barium vaporization has been found. If the tube is run without useful current, barium disintegrates more quickly. With a small load current, the cathode emission falls off with decrease in current; with a large load current, the cathode emission falls off with increase in current (apparently, because of excessive electrolysis).

Ya.B.G.

Card 2/2

24,7700 (1136, 1160, 1164)
26.2421

30955
S/576/61/000/600/012/020
E073/E535

AUTHORS: Kir'yashkina, Z.I., Nosova, V.A. and Luchanskaya, N.M.

TITLE: Temperature dependence of the electric conductivity of CdS films

SOURCE: Soveshchaniye po poluprovodnikovym materialam. 4th Voprosy metallurgii i fiziki poluprovodnikov, poluprovodnikovyye soyedineniya i tverdye splavy Trudy soveshchaniya. Moscow, Izd-vo AN SSSR, 1961. Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova. Fiziko-tehnicheskii institut, 95-99

TEXT: The influence of heat treatment in various gaseous media on the conductivity of CdS films and the nature of changes in conductivity with temperature were studied. The films were produced by evaporating CdS powder in a vacuum of 10^{-4} mm Hg on a $15 \times 15 \text{ mm}^2$ glass base, onto which platinum electrodes were deposited prior to depositing the CdS films. The distance between the electrodes equalled 5 mm, the thickness of the films was 0.6 to 0.8 μ . The temperature dependence of the electric conductivity was measured for freshly produced films without any additional
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Temperature dependence of the ... ³⁰⁹⁵⁵
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E073/E535

treatment and also for films additional heat-treated at 300, 400, 460 and 500°C in air, oxygen, nitrogen and hydrogen. The electrical conductivity was measured in the temperature range 20 to 500°C. Films not heat-treated showed a relatively large conductivity at room temperature (of the order of $10^{-3} \text{ ohm}^{-1} \text{ cm}^{-1}$) and a relatively complicated characteristic of the temperature dependence of the electric conductivity. On raising the temperature to 100-110°C, the electric conductivity of these increased reaching $0.12 \text{ ohm}^{-1} \text{ cm}^{-1}$. On raising the temperature still further to 160-170°C, the electric conductivity remained constant but above these temperatures a further increase in the electrical conductivity was observed for some of the specimens whilst for others there was a decrease. Typical $\lg \sigma$ vs. $1/T$ curves obtained for CdS films after heat-treatment in air, nitrogen, hydrogen and oxygen at 300, 400, 460 and 500°C indicate that films heat-treated at 300°C in air, nitrogen and hydrogen showed an increase in the electric conductivity at room temperature and a change in the curve expressing the temperature dependence of the electrical conductivity. Heat-treatment in oxygen at 300°C leads to

Temperature dependence of the ... ³⁰⁹⁵⁵ 8/576/01/000/000/012/020
0078/8555

a sharp drop in the electrical conductivity and also to a change in the temperature dependence of the electrical conductivity. All films heat-treated at 400°C, regardless of the medium, showed a decrease in the electrical conductivity (to below $10^{-9} \text{ ohm}^{-1} \text{ cm}^{-1}$ at room temperature) and the change in the conductivity with temperature is a typical semiconductor one. Heat-treatment at 400 and 500°C in air, nitrogen, hydrogen and oxygen produced hardly any further change in the magnitude and temperature dependence of the electric conductivity. The results have shown that for heat-treatment temperatures of 400°C and higher, the medium in which the heat-treatment is carried out has no longer any influence on the temperature dependence of the electric conductivity and, therefore, it can be assumed that the change in the properties of the films is connected with their structure. X-ray diffraction patterns of films treated in various media at the same temperature showed that they were absolutely identical. Heating at 400°C and above leads to a considerable ordering of the structure. It is possible that the ratio of the cubic and the hexagonal modifications in the films and the changes in this ratio during heat-treatment play an important role. S. A. Semiletov
Card 3/4

30955

Temperature dependence of the ...

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E073/E535

established by electron diffraction investigations that both modifications are present in the specimens studied. Heat-treatment of the layers brought about an increase in the quantity of the hexagonal modification. To confirm this assumption, electron diffraction investigations of the structure of these films would be required. There are 3 figures and 18 references: 3 Soviet and 15 non-Soviet. The English-language references read as follows: ✓
Ref.2: D. C. Reynolds, H. C. Greene, L. L. Antes, J. Chem. Phys., 1956, 25, 6; Ref.7: S. M. Thomsen, R. H. Bube, Rev. Sci. Instr., 1955, 26, 7; Ref.8: F. H. Nicoll, B. Kazan, J. Opt. Soc. Am., 1955, 45, 8
Ref.9: S. E. Jacobs, C. W. Hart, Proc. of the Nat. Electronics Conf., 1956, 11, 592.

[Abstractor's Note: Abridged translation]

Card 4/4

KIR'YASHKINA, Z.I.; NOSOVA, V.A. [Nosova, V.O.]; LUCHANSKAYA, N.M.
[Luchans'ka, N.M.]; ROKAKH, A.G. [Rokakh, O.H.]; SVERDLOVA,
A.M. [Sverdlova, H.M.]

Characteristics of the cathode conductivity of cadmium
sulfide films. Ukr. fiz. zhur. 9 no.3:343-344 Mr '64.
(MIRA 17:9)

1. Saratovskiy gosudarstvennyy universitet im. Chernishevskogo.

KHALMATOV, Kh.Kh.; LUCHANSKAYA, V.N.

Anatomical texture of jute seeds. Apt. delo 10 no. 2:23-26 Mr-Ap
'61. (MIRA 14:4)

1. Kafedra farmakognozii (zav. R.L. Khazanovich) Tashkentskogo
farmatsevticheskogo instituta (dir.M.A. Azizov).
(JUTE)

KHALMATOV, Kh.Kh.; LUCHANSKAYA, V.N.

Study in culture of some species of the genus Erysimum. Report No.1.
Apt. delo ll no.1:31-34 Ja-F '62. (MIRA 15:4)

1. Tashkentskiy farmatsevticheskiy institut.
(ERYSIMUM) (PHARMACOGNOSY)

GAVRILOVA, L. K.; LUCHANSKAYA, Ye. G.

Metastases of cervical cancer to the heart following combined
radiation therapy. Akush. i gin. 38 no.3:112-113 My-Je '62.
(MIRA 15:6)

1. Iz Saratovskogo gorodskogo onkologicheskogo dispansera
(glavnyy vrach O. P. Kolesnik)

(UTERUS--CANCER) (HEART--CANCER) (RADIOTHERAPY)

LUCHANSKIY, Iosif Aleksandrovich; YANOVSKIY, Aleksandr Aleksandrovich;
KASTORSKIY, V., redaktor; BOGDANOV, N., redaktor; ZHURAVLEV, A.,
tekhnicheskiiy redaktor.

[Functioning of an airplane propeller] Rabota vozdushnogo vinta.
Moskva, Izd-vo Dosaaf, 1954. 141 p. [Microfilm] (MLBA 8:2)
(Propellers, Aerial)

~~LUCHANSKIY, Iosif Aleksandrovich; YANOVSKIY, Aleksandr Aleksandrovich;~~
~~GOLOVIN, Yu.K., redaktor; MELEYEV, A.S., redaktor izdatel'stva;~~
LAVRENOVA, N.B., tekhnicheskii redaktor

[Design and calculation of mechanisms of screw propellers with
adjustable pitch] Konstruktsiia i raschet mekhanizmov grebnykh vintov
reguliruemogo shaga. Moskva, Izd-vo "Morskoi transport," 1956.
95 p. (MLBA 10:3)

(Propellers)

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PHASE I BOOK EXPLOITATION

SOV/1259

Luchanskiy, Iosif Aleksandrovich

Vozdushnyye vinty dlya letayushchikh modeley (Propellers for Model Airplanes) Moscow, Izd-vo DOSAAF, 1958. 115 p. 8,000 copies printed.

Eds.: Yefremova, Ye.V., Kupfer, M.A.; Tech. Ed.: Andrianov, B.I.

PURPOSE: This book is intended for model aircraft builders of the 7th to 8th grade level and may also be used by instructors of model aircraft building clubs.

COVERAGE: The author discusses the function of a model airplane and its geometric and aerodynamic characteristics. He describes the main types of propeller design for rubber band and piston-engine powered models. The selection of propellers, the sizes of wooden blanks, and the basic features in making, adjusting and regulating propellers are covered. No personalities are mentioned. There are 6 Soviet references.

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Propellers for Model Airplanes

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